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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/643,102	08/18/2003	Mark Krier	E108-US	3314
7590 07/28/2006 ETHERTRONICS, INC.			EXAMINER	
			A, MINH D	
9605 SCRANT SAN DIEGO,	ON ROAD, SUITE 850 CA 92121		ART UNIT	PAPER NUMBER
,			2821	
			DATE MAILED: 07/28/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/643,102	KRIER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Minh D A	2821				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 5/16/	<u>′06</u> .					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) 1-25 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-13 and 15-25 is/are rejected. 7) ⊠ Claim(s) 14 is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa					

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DETAILED ACTION

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1, 3-6, 9, 12, 18-23 and 25 are rejected under 35 U.S.C. 102(e) as being unpatentable by Parsche et al (US 6,597,318).

Regarding claims 1, 3, 9, 18, 21 and 23, figures 1-2,Parshe discloses a loop antenna and feed coupler for reduced interaction with tuning adjustment comprising: a first portion (108); a second portion (another108)); a third portion (another (108)), the third portion (108) coupled to the first portion (another108) and to the second portion (another 108)); and a substrate (101), the substrate (101) comprising at least one void, see figures 3-4, wherein the first portion (108), the second portion (108), and the third portion (108) define a capacitively coupled dipole antenna (106), and wherein the antenna (106) is coupled to the substrate(101). See figures 1-5, col.3, lines 45-67 to col.7, lines 1-50.

Regarding claim 4, Parsche discloses wherein the third portion (108) comprises a length having a first end and a second end, and wherein the length is longer than a straight tine distance between the first end and the second end. See figure 3.

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Regarding claims 5-6, Parsche discloses wherein one or more portion of the third portion (another 108) is disposed relative to the first portion (108) and the second portion (another 108) in a non-parallel relationship. See figures 1-2.

Regarding claim 12, Parsche discloses wherein the system comprises a plurality of circuits. See figures 1-8D.

Regarding claim 19, Sanford discloses wherein the antenna further comprises a substrate (704). See figures 7A-8D.

Regarding claim 20, Parsche Sanford discloses wherein within the periphery the substrate defines a void, and wherein the capacitance generally spans the void. See figures 1-8D.

Regarding claim 22, Parsche Sanford discloses wherein the substrate is defined by a periphery, wherein within the periphery the substrate defines a void, and wherein the capacitive area generally spans the void. See figures 4A to 11C, col.11, lines 25-67 to col.21, lines 1-45.

Regarding claim 25, Parsche Sanford discloses the at least two of the antennas comprise capacitor coupled dipole antennas. See figures 4-11C.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 2, 13 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over by Parsche et al (US 6,597,318).

Regarding claims 2, 13 and 16, Parsche essentially discloses the claimed invention but does not explicitly disclose that the antenna is configured to operate at a frequency selected from a group consisting of a GPS, and cellular phone frequency. It would have been an obvious matter of design choice to employ Parsche in frequency selected of a group of GPS and cellular phone in order to maximize the usage of his invention, since applicant does not disclose that, all of these limitations can solve any stated problem and for any particular purpose. Therefore, it appears that the invention would not provide any improvement but merely apply the invention in different presentation.

5. Claims 7-8, 10-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over by Parsche et al (US 6,597,318) in view of Shamir et al (US 2004/0135726A1).

Regarding claims 7-8, 10-11, Parsche discloses the claimed on invention except a high dissipation factor substrate or a FR4 substrate. However, Shamir discloses a high dissipation factor substrate or a FR4 substrate. See col.3, lines [0030] to lines [0031].

It would have been an obvious to one of ordinary skill in the art at the time the invention was made to employ a FR4 substrate such as that suggested by Shamir in the system of Sanford to provide a high dielectric constant and decrease the effective wavelength of the electrical signal at antenna.

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6. Claims 15, 17 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over by Parsche et al (US 6,597,318) in view of Ohoka et al (US 6,281,854).

Regarding claims 15, 17 and 24, Parsche discloses claimed of invention except a wrist type apparatus. However, Ohoka discloses a wrist apparatus. See col.1, lines 12-26.

It would have been an obvious to one of ordinary skill in the art at the time the invention was made to employ a wrist apparatus such as that suggested by Ohoka in the system of Parsche to provide a small or thin antenna or small antenna device for generating a high frequency.

Allowable Subject Matter

7. Claim 14 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

The prior art does not teach that, the substrate comprises a second void, wherein at least one of the plurality of circuits is disposed within the second void recited in independent claim 14.

Inquiry

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Honda (US 6,515,630) and Matsuyoshi et al. (US 6,549,169) are cited to show an antenna for wireless communication.

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Any inquiry concerning this communication or earlier communications from

the examiner should be directed to Minh Dieu A whose telephone number is (571)

272-1817. The examiner can normally be reached on M-F (5:30 AM-2:45 PM).

If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Timothy Callahan can be reached on (571) 272-1740. The

fax phone number for the organization where this application or proceeding is

assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status

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more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free).

Examiner

Minh A

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7/13/06

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